

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/550,580  
Source: PC110  
Date Processed by STIC: 10/5/05

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PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/550,580

DATE: 10/05/2005

TIME: 16:37:16

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 Output Set: N:\CRF4\10052005\J550580.raw

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3 <110> APPLICANT: Cytos Biotechnology AG
4     Bachmann, Martin
5     Huber, Adrian
6     Manolova, Vania
7     Meijerink, Edwin
8     Proba, Karl
9     Tissot, Alain
11 <120> TITLE OF INVENTION: HIV-PEPTIDE-CARRIER-CONJUGATES
13 <130> FILE REFERENCE: PA059WO
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/550,580
C--> 15 <141> CURRENT FILING DATE: 2005-09-23
15 <150> PRIOR APPLICATION NUMBER: US 60/457,348
16 <151> PRIOR FILING DATE: 2003-03-26
18 <160> NUMBER OF SEQ ID NOS: 128
20 <170> SOFTWARE: PatentIn version 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 10
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: oligonucleotide ISS
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36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
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49 <213> ORGANISM: Artificial Sequence
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52 <223> OTHER INFORMATION: oligonucleotide G4-6
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59 <211> LENGTH: 21
60 <212> TYPE: DNA
61 <213> ORGANISM: Artificial sequence

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63 <220> FEATURE:
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83 <211> LENGTH: 24
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85 <213> ORGANISM: Artificial sequence
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94 <210> SEQ ID NO: 7
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108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
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131 <211> LENGTH: 132
132 <212> TYPE: PRT
133 <213> ORGANISM: Bacteriophage Q-beta
135 <400> SEQUENCE: 10

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137 Ala Lys Leu Glu Thr Val Thr Leu Gly Asn Ile Gly Lys Asp Gly Lys  
 138 1 5 10 15  
 141 Gln Thr Leu Val Leu Asn Pro Arg Gly Val Asn Pro Thr Asn Gly Val  
 142 20 25 30  
 145 Ala Ser Leu Ser Gln Ala Gly Ala Val Pro Ala Leu Glu Lys Arg Val  
 146 35 40 45  
 149 Thr Val Ser Val Ser Gln Pro Ser Arg Asn Arg Lys Asn Tyr Lys Val  
 150 50 55 60  
 153 Gln Val Lys Ile Gln Asn Pro Thr Ala Cys Thr Ala Asn Gly Ser Cys  
 154 65 70 75 80  
 157 Asp Pro Ser Val Thr Arg Gln Ala Tyr Ala Asp Val Thr Phe Ser Phe  
 158 85 90 95  
 161 Thr Gln Tyr Ser Thr Asp Glu Glu Arg Ala Phe Val Arg Thr Glu Leu  
 162 100 105 110  
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 166 115 120 125  
 169 Asn Pro Ala Tyr  
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 173 <210> SEQ ID NO: 11  
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 175 <212> TYPE: PRT  
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 180 Met Ala Lys Leu Glu Thr Val Thr Leu Gly Asn Ile Gly Lys Asp Gly  
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 185 20 25 30  
 188 Val Ala Ser Leu Ser Gln Ala Gly Ala Val Pro Ala Leu Glu Lys Arg  
 189 35 40 45  
 192 Val Thr Val Ser Val Ser Gln Pro Ser Arg Asn Arg Lys Asn Tyr Lys  
 193 50 55 60  
 196 Val Gln Val Lys Ile Gln Asn Pro Thr Ala Cys Thr Ala Asn Gly Ser  
 197 65 70 75 80  
 200 Cys Asp Pro Ser Val Thr Arg Gln Ala Tyr Ala Asp Val Thr Phe Ser  
 201 85 90 95  
 204 Phe Thr Gln Tyr Ser Thr Asp Glu Glu Arg Ala Phe Val Arg Thr Glu  
 205 100 105 110  
 208 Leu Ala Ala Leu Leu Ala Ser Pro Leu Leu Ile Asp Ala Ile Asp Gln  
 209 115 120 125  
 212 Leu Asn Pro Ala Tyr Trp Leu Leu Ile Ala Gly Gly Ser Gly Ser  
 213 130 135 140  
 216 Lys Pro Asp Pro Val Ile Pro Asp Pro Pro Ile Asp Pro Pro Pro Gly  
 217 145 150 155 160  
 220 Thr Gly Lys Tyr Thr Cys Pro Phe Ala Ile Trp Ser Leu Glu Glu Val  
 221 165 170 175  
 224 Tyr Glu Pro Pro Thr Lys Asn Arg Pro Trp Pro Ile Tyr Asn Ala Val  
 225 180 185 190  
 228 Glu Leu Gln Pro Arg Glu Phe Asp Val Ala Leu Lys Asp Leu Leu Gly  
 229 195 200 205

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Input Set : A:\sequence listing ascii.txt  
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232 Asn Thr Lys Trp Arg Asp Trp Asp Ser Arg Leu Ser Tyr Thr Thr Phe  
233 210 215 220  
236 Arg Gly Cys Arg Gly Asn Gly Tyr Ile Asp Leu Asp Ala Thr Tyr Leu  
237 225 230 235 240  
240 Ala Thr Asp Gln Ala Met Arg Asp Gln Lys Tyr Asp Ile Arg Glu Gly  
241 245 250 255  
244 Lys Lys Pro Gly Ala Phe Gly Asn Ile Glu Arg Phe Ile Tyr Leu Lys  
245 260 265 270  
248 Ser Ile Asn Ala Tyr Cys Ser Leu Ser Asp Ile Ala Ala Tyr His Ala  
249 275 280 285  
252 Asp Gly Val Ile Val Gly Phe Trp Arg Asp Pro Ser Ser Gly Gly Ala  
253 290 295 300  
256 Ile Pro Phe Asp Phe Thr Lys Phe Asp Lys Thr Lys Cys Pro Ile Gln  
257 305 310 315 320  
260 Ala Val Ile Val Val Pro Arg Ala  
261 325  
264 <210> SEQ ID NO: 12  
265 <211> LENGTH: 362  
266 <212> TYPE: PRT  
267 <213> ORGANISM: BK virus  
269 <400> SEQUENCE: 12  
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272 1 5 10 15  
275 Lys Pro Lys Glu Pro Val Gln Val Pro Lys Leu Leu Ile Lys Gly Gly  
276 20 25 30  
279 Val Glu Val Leu Glu Val Lys Thr Gly Val Asp Ala Ile Thr Glu Val  
280 35 40 45  
283 Glu Cys Phe Leu Asn Pro Glu Met Gly Asp Pro Asp Asp Asn Leu Arg  
284 50 55 60  
287 Gly Tyr Ser Gln His Leu Ser Ala Glu Asn Ala Phe Glu Ser Asp Ser  
288 65 70 75 80  
291 Pro Asp Arg Lys Met Leu Pro Cys Tyr Ser Thr Ala Arg Ile Pro Leu  
292 85 90 95  
295 Pro Asn Leu Asn Glu Asp Leu Thr Cys Gly Asn Leu Leu Met Trp Glu  
296 100 105 110  
299 Ala Val Thr Val Lys Thr Glu Val Ile Gly Ile Thr Ser Met Leu Asn  
300 115 120 125  
303 Leu His Ala Gly Ser Gln Lys Val His Glu Asn Gly Gly Lys Pro  
304 130 135 140  
307 Val Gln Gly Ser Asn Phe His Phe Phe Ala Val Gly Gly Asp Pro Leu  
308 145 150 155 160  
311 Glu Met Gln Gly Val Leu Met Asn Tyr Arg Thr Lys Tyr Pro Gln Gly  
312 165 170 175  
315 Thr Ile Thr Pro Lys Asn Pro Thr Ala Gln Ser Gln Val Met Asn Thr  
316 180 185 190  
319 Asp His Lys Ala Tyr Leu Asp Lys Asn Asn Ala Tyr Pro Val Glu Cys  
320 195 200 205  
323 Trp Ile Pro Asp Pro Ser Arg Asn Glu Asn Thr Arg Tyr Phe Gly Thr  
324 210 215 220

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Input Set : A:\sequence listing ascii.txt  
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327 Tyr Thr Gly Gly Glu Asn Val Pro Pro Val Leu His Val Thr Asn Thr  
 328 225 230 235 240  
 331 Ala Thr Thr Val Leu Leu Asp Glu Gln Gly Val Gly Pro Leu Cys Lys  
 332 245 250 255  
 335 Ala Asp Ser Leu Tyr Val Ser Ala Ala Asp Ile Cys Gly Leu Phe Thr  
 336 260 265 270  
 339 Asn Ser Ser Gly Thr Gln Gln Trp Arg Gly Leu Ala Arg Tyr Phe Lys  
 340 275 280 285  
 343 Ile Arg Leu Arg Lys Arg Ser Val Lys Asn Pro Tyr Pro Ile Ser Phe  
 344 290 295 300  
 347 Leu Leu Ser Asp Leu Ile Asn Arg Arg Thr Gln Lys Val Asp Gly Gln  
 348 305 310 315 320  
 351 Pro Met Tyr Gly Met Glu Ser Gln Val Glu Glu Val Arg Val Phe Asp  
 352 325 330 335  
 355 Gly Thr Glu Gln Leu Pro Gly Asp Pro Asp Met Ile Arg Tyr Ile Asp  
 356 340 345 350  
 359 Arg Gln Gly Gln Leu Gln Thr Lys Met Val  
 360 355 360  
 363 <210> SEQ ID NO: 13  
 364 <211> LENGTH: 130  
 365 <212> TYPE: PRT  
 366 <213> ORGANISM: Bacteriophage fr  
 368 <400> SEQUENCE: 13  
 370 Met Ala Ser Asn Phe Glu Glu Phe Val Leu Val Asn Gly Gly Thr  
 371 1 5 10 15  
 374 Gly Asp Val Lys Val Ala Pro Ser Asn Phe Ala Asn Gly Val Ala Glu  
 375 20 25 30  
 378 Trp Ile Ser Ser Asn Ser Arg Ser Gln Ala Tyr Lys Val Thr Cys Ser  
 379 35 40 45  
 382 Val Arg Gln Ser Ser Ala Asn Asn Arg Lys Tyr Thr Val Lys Val Glu  
 383 50 55 60  
 386 Val Pro Lys Val Ala Thr Gln Val Gln Gly Gly Val Glu Leu Pro Val  
 387 65 70 75 80  
 390 Ala Ala Trp Arg Ser Tyr Met Asn Met Glu Leu Thr Ile Pro Val Phe  
 391 85 90 95  
 394 Ala Thr Asn Asp Asp Cys Ala Leu Ile Val Lys Ala Leu Gln Gly Thr  
 395 100 105 110  
 398 Phe Lys Thr Gly Asn Pro Ile Ala Thr Ala Ile Ala Asn Ser Gly  
 399 115 120 125  
 402 Ile Tyr  
 403 130  
 406 <210> SEQ ID NO: 14  
 407 <211> LENGTH: 130  
 408 <212> TYPE: PRT  
 409 <213> ORGANISM: Bacteriophage GA  
 411 <400> SEQUENCE: 14  
 413 Met Ala Thr Leu Arg Ser Phe Val Leu Val Asp Asn Gly Gly Thr Gly  
 414 1 5 10 15  
 417 Asn Val Thr Val Val Pro Val Ser Asn Ala Asn Gly Val Ala Glu Trp

**VERIFICATION SUMMARY**

**PATENT APPLICATION: US/10/550,580**

**DATE: 10/05/2005**

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**Input Set : A:\sequence listing ascii.txt**  
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L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date